

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

110129.434

APPLICATION NO.

10/749,117

APPLICANTS

David M. Gravett et al.

FILING DATE

December 30, 2003

GROUP ART UNIT

1618

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AN	AA	3619371	11/09/71	Crook et al.	435	179	
	AB	3742955	07/03/73	Battista et al.	606	214	
	AC	3788948	01/29/74	Kegadal et al.	435	180	
	AD	3810473	05/14/74	Cruz, Jr et al.	606	213	
	AE	3876501	04/08/75	Hanushewsky	435	178	
	AF	3949073	04/06/76	Daniels et al.	514	2	
	AG	3960830	06/01/76	Bayer et al.	530	334	
	AH	4002531	01/11/77	Royer	435	188	
	AI	4055635	10/25/77	Green et al.	424	400	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AJ	EP 0 650 512 B1	10/24/01	EPO		
	AK	WO 90/05755	05/31/90	WIPO		
	AL	WO 92/06678	04/30/92	WIPO		
	AM	WO 94/01483	01/20/94	WIPO		
	AN	WO 96/29370	09/26/96	WIPO		
	AO	WO 98/12243	03/26/98	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Abuchowski, A. et al., "Alteration of Immunological Properties of Bovine Serum Albumin by Covalent Attachment of Polyethylene Glycol," <i>The Journal of Biological Chemistry</i> 252(11): 3578-3581, June 10, 1977.
	AQ	Abuchowski, A. et al., "Cancer therapy with chemically modified enzymes. I. Antitumor properties of polyethylene glycol-asparaginase conjugates," <i>Cancer Biochem. Biophys.</i> 7(2): 175-186, 1984.
ON	AR	Abuchowski, A. et al., "Effect of Covalent Attachment of Polyethylene Glycol on Immunogenicity and Circulating Life of Bovine Liver Catalase," <i>The Journal of Biological Chemistry</i> 252(11): 3582-3586, June 1977.

EXAMINER

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QA	BA	4088538	05/09/78	Schneider	435	94	
	BB	4101380	07/18/78	Rubinstein et al.	435	181	
	BC	4164559	08/14/79	Miyata et al.	424	428	
	BD	4179337	12/18/79	Davis et al.	435	181	
	BE	4192021	03/11/80	Deibig et al.	623	23.61	
	BF	4238480	12/09/80	Sawyer	514	21	
	BG	4261973	04/14/81	Lee et al.	424	78.3	
	BH	4279812	07/21/81	Cioca	530	356	
	BI	4301144	11/17/81	Iwashita et al.	514	6	
	BJ	4314380	02/09/82	Miyata	623	23.61	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	BK	WO 00/09087	02/24/00	WIPO		
	BL	WO 00/33764	06/15/00	WIPO		
	BM	WO 00/62827	10/26/00	WIPO		
	BN	WO 01/60335	08/23/01	WIPO		
	BO	WO 04/044223	05/27/04	WIPO		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BP	Anderson, G.W. et al., "The Use of Esters of N-Hydroxysuccinimide in Peptide Synthesis," <i>Journal of the American Chemical Society</i> 86(9):1839-1842, May 5, 1964.
	BQ	Beauchamp, C.O. et al., "A New Procedure for the Synthesis of Polyethylene Glycol-Protein Adducts; Effects on Function, Receptor Recognition, and Clearance of Superoxide Dismutase, Lactoferrin, and α_2 -Macroglobulin," <i>Analytical Biochemistry</i> 131(1): 25-33, May 1983.
QA	BR	Bendich, A. et al., "Immunological effects of native and polyethylene glycol-modified asparaginases from <i>Vibrio succinogenes</i> and <i>Escherichia coli</i> in normal and tumour-bearing mice," <i>Clin. Exp. Immunol.</i> 48(1): 273-278, April 1982.

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>7/6/2006</i>
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*EXAMINER INITIAL	CA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q1	CA	4320201	03/16/82	Berg et al.	435	265	
	CB	4357274	11/02/82	Werner	530	353	
	CC	4390519	06/28/83	Sawyer	424	447	
	CD	4404970	09/20/83	Sawyer	424	400	
	CE	4412947	11/01/83	Cioca	530	356	
	CF	4412989	11/01/83	Iwashita	514	762	
	CG	4414147	11/08/83	Klibanov et al.	530	351	
	CH	4415628	11/15/83	Cioca et al.	428	335	
	CI	4415665	11/15/83	Mosbach et al.	435	179	
	CJ	4424208	01/03/84	Wallace et al.	514	21	
	CK	4451568	05/29/84	Sneider et al.	435	181	
	CL	4488911	12/18/84	Luck et al.	106	157.2	

FOREIGN PATENT DOCUMENTS					
CM	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO

OTHER ART		(Including Author, Title, Date, Pertinent Pages, Etc.)
CN		Chen, R.H.L. et al., "Properties of two urate oxidases modified by the covalent attachment of poly(ethylene glycol)," <i>Biochimica et Biophysica Acta</i> 660: 293-298, 1981.
CO		Chvapil, M. et al., "Some Chemical and Biological Characteristics of a New Collagen-Polymer Compound Material," <i>Journal of Biomedical Materials Research</i> 3(1): 315-332, March 1969.
CP		Davis, S. et al., "Hypouricaemic Effect of Polyethyleneglycol Modified Urate Oxidase," <i>The Lancet</i> 2: 281-283, August 8, 1981.
CQ		Doillon, C.J. et al., "Collagen-based wound dressings: Control of the pore structure and morphology," <i>Journal of Biomedical Materials Research</i> 20(8): 1219-1228, October 1986.

EXAMINER 	DATE CONSIDERED 2/6/2006
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9.11	DA	4495285	01/22/85	Shimizu et al.	435	215	
	DB	4496689	01/29/85	Mitra	525	54.1	
	DC	4515637	05/07/85	Cioca	424	94.63	
	DD	4544516	10/01/85	Hughes et al.	264	108	
	DE	4553974	11/19/85	Dewanjee	8	94.11	
	DF	4557764	12/10/85	Chu, II	106	160.1	
	DG	4563350	01/07/86	Nathan et al.	424	549	
	DH	4563351	01/07/86	Caslavsky et al.	424	606	
	DI	4563490	01/07/86	Stol et al.	524	24	
	DJ	4578067	03/25/86	Cruz, Jr	602	50	
	DK	4582640	04/15/86	Smestad et al.	530	356	
	DL	4592864	06/03/86	Miyata et al.	530	356	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	DM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DN	Ferruti, P. et al., "Succinic Half-esters of Poly(ethylene glycol)s and Their Benzotriazole and Imidazole Derivatives as Oligomeric Drug-binding Matrices," <i>Makromol. Chem.</i> 182(8): 2183-2192, August 1981.
	DO	Fleischer, N. et al., "Regeneration of Lost Attachment Apparatus in the Dog using Polygalactin-910," <i>Journal of Dental Research</i> 86(Special Issue): 281, Abstract No. 1393, 1987.
	DP	Gander, B. et al., "Crosslinked poly(alkylene oxides) for the preparation of controlled release micromatrices," <i>Journal of Controlled Release</i> 5: 271-283, 1988.
ON	DQ	Gnanou, Y. et al., "Hydrophilic Polyurethane Networks Based on Poly(ethylene oxide): Synthesis, Characterization, and Properties. Potential Applications as Biomaterials," <i>Macromolecules</i> 17: 945-952, 1984.

EXAMINER <i>J. Nigam</i>	DATE CONSIDERED <i>7/6/2006</i>
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Q1	EA	4600533	07/15/86	Chu	530	356	
	EB	4642117	02/10/87	Nguyen	623	23.72	
	EC	4655980	04/07/87	Chu	264	102	
	ED	4670417	06/02/87	Iwasaki et al.	514	6	
	EE	4678468	07/07/87	Hiroyoshi	623	1.49	
	EF	4687820	08/18/87	Hou et al.	525	54.1	
	EG	4689399	08/25/87	Chu	530	356	
	EH	4703108	10/27/87	Silver et al.	530	356	
	EI	4704131	11/03/87	Noishiki et al.	600	36	
	EJ	4725671	02/16/88	Chu et al.	530	356	
	EK	4732863	03/22/88	Tomasi	424	1.53	
	EL	4737544	04/12/88	McCain et al.	424	443	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION			
				YES	NO		
	EM						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	EN	Gomel, V. et al., "Infertility surgery: microsurgery," <i>Current Opinion in Obstetrics and Gynecology</i> 4: 390-399, 1992.					
	EO	Inada, Y. et al., "Ester synthesis catalyzed by polyethylene glycol-modified lipase in benzene," <i>Biochemical and Biophysical Research Communications</i> 122(2): 845-850, July 31, 1984.					
	EP	Katre, N.V. et al., "Chemical modification of recombinant interleukin 2 by polyethylene glycol increases its potency in the murine Meth A sarcoma model," <i>Proc. Natl. Acad. Sci. USA</i> 84: 1487-1491, March 1987.					
	EQ	McPherson, J.M. et al., "The Influence of Heparin on the Wound Healing Response to Collagen Implants <i>in vivo</i> ," <i>Collagen Rel. Res.</i> 1: 83-100, 1988.					
EXAMINER				DATE CONSIDERED			
Q1				7/6/2006			
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GA	FA	4745180	05/17/88	Moreland et al.	424	85.2	
	FB	4766106	08/23/88	Katre	514	12	
	FC	4774227	09/27/88	Piez et al.	514	21	
	FD	4789663	12/06/88	Wallace et al.	514	21	
	FE	4795467	01/03/89	Piez et al.	424	423	
	FF	4828563	05/09/89	Muller-Lierheim	623	23.63	
	FG	4847325	07/11/89	Shadle et al.	525	54.1	
	FH	4851513	07/25/89	Devore et al.	530	356	
	FI	4935465	06/19/90	Garman	525	54.1	
	FJ	4950483	08/21/90	Ksander	424	422	
	FK	4950699	08/21/90	Holman	424	448	
	FL	4973493	11/27/90	Guire	427	2.24	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	FN	Nishida, Y. et al., "Hypouricaemic effect after oral administration in chickens of polyethylene glycol-modified uricase entrapped in liposomes," <i>J. Pharm. Pharmacol.</i> 36(5): 354-355, May 1984.
	FO	Pados, G. A. et al., "Adhesions," <i>Current Opinion in Obstetrics and Gynecology</i> 4: 412-418, 1992.
	FP	Pagidas, K. et al., "Effects of Ringer's lactate, Interceed(TC7) and Gore-Tex Surgical Membrane on postsurgical adhesion formation," <i>Fertility and Sterility</i> 57(1): 199-201, January 1992.
IN	FQ	Pyatak, P.S. et al., "Preparation of a polyethylene glycol: Superoxide dismutase adduct, and an examination of its blood circulating life and anti-inflammatory activity," <i>Research Communications in Chemical Pathology and Pharmacology</i> 29(1): 113-127, July 1980.

EXAMINER <i>J. Roy</i>	DATE CONSIDERED <i>1/6/2006</i>
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GA	4979959	12/25/90	Guire	435	176		
	4980403	12/25/90	Bateman et al.	524	17		
	4983580	01/08/91	Gibson	514	2		
	5024742	06/18/91	Nesburn et al.	204	157.68		
	5108957	04/28/92	Kelman et al.	501	35		
	5122614	06/16/92	Zalipsky	548	520		
	5141747	08/25/92	Scholz	424	424		
	5156613	10/20/92	Sawyer	606	213		
	5162430	11/10/92	Rhee et al.	525	54.1		
	5167960	12/01/92	Ito et al.	424	423		
	5169754	12/08/92	Siiman et al.	435	5		
	5192316	03/09/93	Ting	623	5.16		

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DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
			YES	NO	
GM					

GNOTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
GO	Ramshaw, J.A.M. et al., "Precipitation of Collagens by Polyethylene Glycols," <i>Analytical Biochemistry</i> 141(2): 361-365, September 1984.
GP	Savoca, K.V. et al., "Preparation of a Non-Immunogenic Arginase By the Covalent Attachment of Polyethylene Glycol," <i>Biochimica et Biophysica Acta</i> 578: 47-53, 1979.
GQ	Sawhney, A.S. et al., "Optimization of photopolymerized bioerodible hydrogel properties for adhesion prevention," <i>Journal of Biomedical Materials Research</i> 28: 831-838, 1994.
GR	Sierra, D., "Fibrin Sealant Adhesive Systems: A Review of Their Chemistry, Material Properties and Clinical Applications," <i>Journal of Biomaterials Applications</i> , 7:309-351, January 1993

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JN	HA	5198493	03/30/93	Holmberg et al.	525	54.1	
	HB	5201764	04/13/93	Kelman et al.	623	6.59	
	HC	5209776	05/11/93	Bass et al.	106	124.1	
	HD	5219564	06/15/93	Zalipsky et al.	424	78.17	
	HE	5219895	07/15/93	Kelman et al.	522	68	
	HF	5264214	11/23/93	Rhee et al.	424	422	
	HG	5290552	03/01/94	Sierra et al.	424	94.64	
	HH	5292802	03/08/94	Rhee et al.	525	54.1	
	HI	5298643	03/29/94	Greenwald	558	6	
	HJ	5304595	04/19/94	Rhee et al.	525	54.1	
	HK	5306500	04/26/94	Rhee et al.	424	422	
	HL	5308889	05/03/94	Rhee et al.	523	113	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	HM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	HN	Steinleitner, A. et al., "Poloxamer 407 as an Intraperitoneal Barrier Material for the Prevention of Postsurgical Adhesion Formation and Reformation in Rodent Models for Reproductive Surgery," <i>Obstet. Gynecol.</i> 77: 48-52, 1991.
	HO	Takahashi, K. et al., "A Chemical Modification to make horseradish peroxidase soluble and active in benzene," <i>Biochemical and Biophysical Research Communications</i> 121(1): 261-265, May 31, 1984.
	HP	Tulandi, T., "Effects of fibrin sealant on tubal anastomosis and adhesion formation," <i>Fertility and Sterility</i> 56(1): 136-138, July 1991.
JN	HQ	Ulbrich, K. et al., "Poly(ethylene glycol)s containing enzymatically degradable bonds," <i>Makromol. Chem.</i> 187: 1131-1144, May 1986.

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GA	IA	5321095	06/14/94	Greenwald	525	404	
	IB	5324775	06/28/94	Rhee et al.	525	54.2	
	IC	5324844	06/28/94	Zalipsky	548	520	
	ID	5328955	07/12/94	Rhee et al.	525	54.1	
	IE	5349001	09/20/94	Greenwald et al.	525	408	
	IF	5354336	10/11/94	Kelman et al.	128	898	
	IG	5364622	11/15/94	Franz et al.	424	94.64	
	IH	5405877	04/11/95	Greenwald et al.	514	772.3	
	II	5410016	04/25/95	Hubbell et al.	528	354	
	IJ	5455027	10/03/95	Zalipsky et al.	424	78.17	
	IK	5475052	12/12/95	Rhee et al.	525	54.1	
	IL	5514379	05/07/96	Weissleder et al.	424	426	

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					YES	NO
	IM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	IN	Urman, B. et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3): 568-570, September 1991.
	IO	Viau, A.T. et al., "Safety evaluation of free radical scavengers PEG-catalase and PEG-superoxide dismutase," <i>Journal of Free Radicals in Biology & Medicine</i> 2(4): 283-288, 1986.
	IP	Viau, A.T. et al., "Toxicologic studies of a conjugate of asparaginase and polyethylene glycol in mice, rats, and dogs," <i>Am. J. Vet. Res.</i> 47(6): 1398-1401, June 1986.
GA	IQ	Wallace, D.G. et al., "A Tissue Sealant Based on Reactive Multifunctional Polyethylene Glycol," <i>Journal of Biomedical Materials Research</i> , 58(5):545-555, 2001.

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JA		5549904	08/27/96	Juergensen et al.	424	423	
JB		5567422	10/22/96	Greenwald	424	78.3	
JC		5,583,114	12/10/96	Barrows, et al.	514	21	
JD		5605976	02/25/97	Martinez et al.	525	408	
JE		5612460	03/18/97	Zalipsky	530	391.9	
JF		5614549	03/25/97	Greenwald et al.	514	449	
JG		5614587	03/25/97	Rhee et al.	525	54.1	
JH		5626863	05/06/97	Hubbell et al.	424	426	
JI		5637749	06/10/97	Greenwald	558	6	
JJ		5643575	07/01/97	Martinez et al.	424	194.1	
JK		5700848	12/23/97	Soon-Shiong et al.	522	7	
JL		5752974	05/19/98	Rhee et al.	606	214	

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	JM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

JN		West, J.L. et al., "Comparison of covalently and physically cross-linked polyethylene glycol-based hydrogels for the prevention of postoperative adhesions in a rat model," <i>Biomaterials</i> 16(15): 1153-1156, October 1995.
JO		Wieder, K.J. et al., "Some Properties of Polyethylene Glycol: Phenylalanine Ammonia-Lyase Adducts," <i>The Journal of Biological Chemistry</i> 254(24): 12579-12587, December 25, 1979.
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JQ		

EXAMINER	DATE CONSIDERED
<i>J. Roy</i>	7/6/2006
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).	

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 110129.434		APPLICATION NO. 10/749,117	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS David M. Gravett et al.			
				FILING DATE December 30, 2003		GROUP ART UNIT 1618	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
JN	KA	5786421	07/28/98	Rhee, et al.	525	54.1	
	KB	5874500	02/23/99	Rhee, et al.	525	54.1	
	KC	5900245	05/04/99	Sawhney, et al.	424	426	
	KD	5936035	08/10/99	Rhee, et al.	525	54.1	
	KE	6051248	04/18/00	Sawhney, et. al.	424	426	
	KF	6051648	04/18/00	Rhee et al.	525	54.1	
	KG	6165489	12/26/00	Berg, et al.	424	426	
	KH	6166130	12/26/00	Rhee et al.	525	54.1	
	KI	6217894	04/17/01	Sawhney, et al.	424	426	
	KJ	6312725	11/06/01	Wallace, et al.	424	484	
	KK	6323278	11/27/01	Rhee, et al.	525	54.1	
	KL	6352710	03/05/02	Sawhney, et al.	424	426	
	KM	6458889	10/01/02	Trollsas et al.	525	54.1	
	KN	6534591	03/18/03	Rhee et al.	525	54.1	
	JO	2002/0165337	11/07/02	Wallace et al.	528	373	
	FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION			
				YES	NO		
	KP						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	KQ						
	KR						
	KS						
EXAMINER <i>JN</i>				DATE CONSIDERED 7/6/2006			
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